

SEQUENCE LISTING

<110> ALBERTSEN, R. C.
FOX, TIM
HUFFMAN, GARY
TRIMNELL, MARY

<120> NUCLEOTIDE SEQUENCES MEDIATING MALE FERTILITY AND
METHOD OF USING SAME

<130> 1148

<140> 09/670,153

<141> 2000-09-26

<160> 7

<170> PatentIn Ver. 2.1

<210> 1

<211> 1906

<212> DNA

<213> Zea mays

<220>

<221> CDS

<222> (1..1638, 1642..1767)

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ggc ccg aga tca tgg cca gtc atc ggc gca acg gtg gag cag ctg agg	192
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agg aca gtg acc gtc gac atg ccg ttc act tcc tac acc tac atc gct	288
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100165 1906

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tcc aag gca ggc aaa gtt gtg gac atg cag gaa ctt tac atg agg atg Ser Lys Ala Gly Lys Val Val Asp Met Gln Glu Leu Tyr Met Arg Met 180 185 190			576
acg ctg gac tcc atc tgc aag gtt ggg ttc ggg gtc gag atc ggc acg Thr Leu Asp Ser Ile Cys Lys Val Gly Phe Gly Val Glu Ile Gly Thr 195 200 205			624
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gcc aac atc atc atc acg ctg cgg ttc atc gac ccg ctg tgg cgc atc Ala Asn Ile Ile Ile Thr Leu Arg Phe Ile Asp Pro Leu Trp Arg Ile 225 230 235 240			720
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aag ctc gtg gac gag ttc acc tac agc gtg atc cgc cgg agg aag gcc Lys Leu Val Asp Glu Phe Thr Tyr Ser Val Ile Arg Arg Arg Lys Ala 260 265 270			816
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10021657-121401

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 Val Pro Gln Asp Pro Lys Gly Ile Leu Glu Asp Asp Val Leu Pro Asp
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 Met Gly Arg Met Glu Tyr Asn Trp Gly Pro Asp Ala Ala Ser Phe Arg
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ccg gag cgg tgg atc aac gag gat ggc gcg ttc cgc aac gcg tcg ccg 1440
 Pro Glu Arg Trp Ile Asn Glu Asp Gly Ala Phe Arg Asn Ala Ser Pro
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ttc aag ttc acg gcg ttc cag gcg ggg ccg agg atc tgc ctg ggc aag 1488
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gac tcg gcg tac ctg cag atg aag atg gcg ctg gcc atc ctg ttc cgc 1536
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atg acc atc ctg tcc atg gcg cac ggc ctg aag gtc cgc gtc tct agg 1632
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T0021657 1344

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1906

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Gly Pro Arg Ser Trp Pro Val Ile Gly Ala Thr Val Glu Gln Leu Arg
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Asn Tyr His Arg Met His Asp Trp Leu Val Gly Tyr Leu Ser Arg His
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Arg Thr Val Thr Val Asp Met Pro Phe Thr Ser Tyr Thr Tyr Ile Ala
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Asp Pro Val Asn Val Glu His Val Leu Lys Thr Asn Phe Thr Asn Tyr
 100 105 110

Pro Lys Gly Ile Val Tyr Arg Ser Tyr Met Asp Val Leu Leu Gly Asp
 115 120 125

Gly Ile Phe Asn Ala Asp Gly Glu Leu Trp Arg Lys Gln Arg Lys Thr
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Ala Ser Phe Glu Phe Ala Ser Lys Asn Leu Arg Asp Phe Ser Ala Ile
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Val Phe Arg Glu Tyr Ser Leu Lys Leu Ser Gly Ile Leu Ser Gln Ala
 165 170 175

Ser Lys Ala Gly Lys Val Val Asp Met Gln Glu Leu Tyr Met Arg Met
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10001657-121401

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 Ala Asn Ile Ile Ile Thr Leu Arg Phe Ile Asp Pro Leu Trp Arg Ile
 225 230 235 240
 Lys Arg Phe Phe His Val Gly Ser Glu Ala Leu Leu Ala Gln Ser Ile
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 Lys Leu Val Asp Glu Phe Thr Tyr Ser Val Ile Arg Arg Arg Lys Ala
 260 265 270
 Glu Ile Val Glu Val Arg Ala Ser Gly Lys Gln Glu Lys Met Lys His
 275 280 285
 Asp Ile Leu Ser Arg Phe Ile Glu Leu Gly Glu Ala Gly Asp Asp Gly
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 Gly Gly Phe Gly Asp Asp Lys Ser Leu Arg Asp Val Val Leu Asn Phe
 305 310 315 320
 Val Ile Ala Gly Arg Asp Thr Thr Ala Thr Thr Leu Ser Trp Phe Thr
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 His Met Ala Met Ser His Pro Asp Val Ala Glu Lys Leu Arg Arg Glu
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 370 375 380
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 Val Tyr Leu His Ala Cys Val Thr Glu Thr Leu Arg Leu Tyr Pro Ala
 405 410 415
 Val Pro Gln Asp Pro Lys Gly Ile Leu Glu Asp Asp Val Leu Pro Asp
 420 425 430
 Gly Thr Lys Val Arg Ala Gly Gly Met Val Thr Tyr Val Pro Tyr Ser
 435 440 445
 Met Gly Arg Met Glu Tyr Asn Trp Gly Pro Asp Ala Ala Ser Phe Arg
 450 455 460
 Pro Glu Arg Trp Ile Asn Glu Asp Gly Ala Phe Arg Asn Ala Ser Pro
 465 470 475 480
 Phe Lys Phe Thr Ala Phe Gln Ala Gly Pro Arg Ile Cys Leu Gly Lys
 485 490 495

10021657 121401

Asp Ser Ala Tyr Leu G Met Lys Met Ala Leu Ala Ile Phe Arg
500 505

Phe Tyr Ser Phe Arg Leu Leu Glu Gly His Pro Val Gln Tyr Arg Met
515 520 525

Met Thr Ile Leu Ser Met Ala His Gly Leu Lys Val Arg Val Ser Arg
530 535 540

Ala Val Cys His Gly Asp Leu Asp Met Asp Ile Val Pro Leu Asn Pro
545 550 555 560

Arg Gln Ile Thr Leu Val Leu Gln Ile Cys Met His Ala Cys Lys Gly
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Lys Arg Trp Val Ser Leu Val Ala Trp Leu Lys Pro
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gatgtgtctcc tcgggtgacgg catattcaac gctgacggcg agctgtggag gaagcagagg 180
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<223> "Xaa" may be any, other or unknown amino acid

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20 25 30

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Arg Ser Tyr Met Asn Val Leu Leu Gly Asp Gly Ile Phe Ala Asp
35 40 45

Gly Glu Leu Trp Arg Lys Gln Arg Lys Thr Ala Ser Phe Glu Phe Ala
50 55 60

Ser Lys Asn Leu Arg Asp Phe Ser Ala Asn Val Phe Arg Glu Tyr Ser
65 70 75 80

Leu Lys Leu Ser Gly Ile Leu Ser Gln Ala Ser Lys Ala Gly Lys Val
85 90 95

Val Asp Met Gln Glu Leu Tyr Met Arg Met Thr Leu Asp Ser Ile Cys
100 105 110

Xaa Val Gly Phe Gly Val Xaa Ile Gly Thr Leu Ser Pro Asp Leu Pro
115 120 125

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<213> Zea mays

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<211> 267

<212> DNA

<213> Zea mays

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